CLAIMS

1. An electrolyte for a photovoltaic device comprising (i) a layered clay mineral and/or an organically modified layered clay mineral and (ii) an ionic liquid.

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- 2. An electrolyte for a photovoltaic device as claimed in claim 1, wherein said layered clay mineral and/or organically modified layered clay mineral is formed from a swelled dispersion of solvent and/or ionic liquid.
- 3. An electrolyte as claimed in claim 1, wherein at least part of the exchangeable inorganic ions of said organically modified layered clay mineral is ion exchanged with organic onium ions.
- 4. An electrolyte as claimed in any one of claims 1 to 3, wherein said ionic liquid is at least one member selected from the group consisting of quaternary ammonium salts, imidazolium salts, pyridinium salts and pyrrolidinium salts.
- 5. A photovoltaic device comprising a photoelectrode including a transparent conducting layer and a metal oxide semiconductor mesoporous film, a counter electrode arranged facing said photoelectrode and an electrolyte layer arranged between said photoelectrode and said counter electrode, wherein electrolyte layer is an electrolyte according to any one of claims 1 to 4.
- 6. A photovoltaic device as claimed in claim 5, wherein the conductive substrate of the photovoltaic device is obtained by coating, on a substrate, a

 30 conductive polyaniline dispersion stably dispersed in an organic solvent comprising (A) a polyaniline obtained by polymerization of aniline or an aniline derivative, (B) a sulfonic acid compound and/or (C) an organic polymer having a protonic acid group, (D) a molecular weight

 35 modifier, and (E) an organic solvent capable of dissolving the sulfonic acid compound (B), the organic polymer having a protonic acid group (C) and the

molecular weight modifier (D).

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- 7. A photovoltaic device as claimed in claim 6, wherein said molecular weight modifier is at least one aniline derivative having a substituent at the 4-position.
- 8. A photovoltaic device as claimed in claim 6 or 7, wherein said polyaniline (A) is produced in the presence of a phase transfer catalyst.
- 9. A dye-sensitized solar cell comprising a photovoltaic device according to any one of claims 5 to 8 and a photosensitizing dye carried on a metal oxide semiconductor mesoporous film of the photovoltaic device.